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**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

Declaration
Submitted
with Initial
Filing

OR

☒ Declaration
Submitted after Initial
Filing (surcharge
(37 CFR 1.16 (e))
required)

Attorney Docket Number

2000-IP-001848

First Name of Inventor

Ronald E. Sweatman

COMPLETE IF KNOWN

Application Number

10/082,459

Filing Date

02/25/2002

Art Unit

1712

Examiner Name

unknown

As the below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Methods of Discovering and Correcting Subterranean Formation Integrity Problems
During Drilling

(Title of the Invention)

the specification of which

☐

is attached hereto

OR

☒

was filed on (MM/DD/YYYY)

02/25/2002

as United States Application Number or PCT International

Application Number

10/082,459

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

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DECLARATION — Utility or Design Patent ApplicationDirect all correspondence to: ☒Customer Number
or Bar Code LabelOR ☐

Correspondence address below

Name

Address

City

State

ZIP

Country

Telephone

Fax

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR :

☐ A petition has been filed for this unsigned inventorGiven Name Ronald E.
(first and middle [if any])Family Name Sweatman
or SurnameInventor's
Signature*Ronald E. Sweatman*

Date

4-1-02

Montgomery
Residence: CityTexas
StateU.S.
CountryU.S.
Citizenship

Mailing Address 163 Lakeside Drive

Montgomery
CityTexas
State77356
ZIPU.S.
Country

NAME OF SECOND INVENTOR:

☐ A petition has been filed for this unsigned inventorGiven Name Richard F.
(first and middle [if any])Family Name Vargo, Jr.
or SurnameInventor's
Signature*R. F. Vargo*

Date

4-3-02

Katy
Residence: CityTexas
StateU.S.
CountryU.S.
Citizenship

Mailing Address 2142 Brinton Oaks Court

Katy
CityTexas
State77450
ZIPU.S.
Country☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.



COPY OF PAPER
ORIGINALLY FILED

PTO/SB/02A (10-00)

Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet Page <u>1</u> of <u>1</u>
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Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
David S. Given Name		Kulakofsky Family Name or Surname	
Inventor's Signature <i>David S. Kulakofsky</i>		Date 04/02/02	
Katy Residence: City	Texas State	U.S. Country	U.S. Citizenship
5715 Ashley Spring Court Mailing Address			
Mailing Address			
Katy City	Texas State	77494 ZIP	U.S. Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Alvaro Given Name		Escorcía Family Name or Surname	
Inventor's Signature <i>Alvaro Escorcía</i>		Date 4-2-2002	
Sugarland Residence: City	Texas State	U.S. Country	U.S. Citizenship
4114 Ivy Mist Court Mailing Address			
Mailing Address			
Sugarland City	Texas State	77479 ZIP	U.S. Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Krishna M. Given Name		Ravi Family Name or Surname	
Inventor's Signature <i>Krishna M. Ravi</i>		Date April 04, 02	
Kingwood Residence: City	Texas State	U.S. Country	U.S. Citizenship
P.O. Box 5622 Mailing Address			
Mailing Address			
Kingwood City	Texas State	77345 ZIP	U.S. Country

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



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#4

Please type a plus sign (+) inside this box → ☐

PTO/SB/81 (02-01)

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	10/082,459
Filing Date	February 25, 2002
First Named Inventor	Ronald E. Sweatman
Title	Methods of Discovering . .
Group Art Unit	1712
Examiner Name	unknown
Attorney Docket Number	HES 2000-IP-001848

I hereby appoint:

☒ Practitioners at Customer Number → 
OR

☐ Practitioner(s) named below:

Name	Registration Number
see attached	

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

OR

☐ Practitioners at Customer Number → 

OR

☐ Firm or
Individual Name

Address

Address

City

State

Zip

Country

Telephone

Fax

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name	Craig W. Roddy
Signature	<i>Craig W. Roddy</i>
Date	4-8-02

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐

PTO/SB/02C (3-87)

Approved for use through 8/30/93. CMB 0851-0032

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

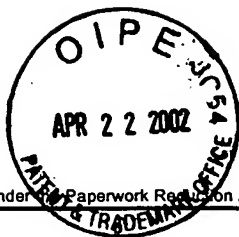
Under the Paperwork Reduction Act of 1980, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION	REGISTERED PRACTITIONER INFORMATION (Supplemental Sheet)
--------------------	---

Name	Registration Number	Name	Registration Number
Halliburton Energy Services, Inc. Practitioners		McAfee & Taft Practitioners	
William E. Shull	29,438	C. Clark Dougherty, Jr.	24,208
Michael D. McCully	29,566	Clifford C. Dougherty, III	31,607
Mark A. Smith	30,220	E. Harrison Gilbert, III	29,156
William M. Imwalle	35,904	Neal R. Kennedy	31,383
Paul I. Herman	37,349	Michael J. LaBrie	39,507
Robert A. Kent	28,626	Anthony L. Rahhal	37,562
Craig W. Roddy	36,256	Jean L. Pinkston	45,014
John W. Wustenberg	35,415	William D. Hall	35,535

Shorten Hour Statement: This form is estimated to take 8.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20531. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20531.**

Declaration — Registered Practitioner Information (Supplemental Sheet) (PTO/SB/02C)(1-1.4)



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PTO/SB/96 (08-00)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Ronald E. Sweatman et al.

Application No./Patent No.: 10/082,459 Filed/Issue Date: February 25, 2002

Entitled: Methods of Discovering And Correcting Subterranean Formation ...

Halliburton Energy Services, Inc. corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

4-8-2002

Date

Craig W. Roddy

Typed or printed name

Craig W. Roddy

Signature

Counsel

Title

ASSIGNMENT

Whereas, I/We, Ronald E. Sweatman, of Montgomery County, Montgomery, Texas; Richard F. Vargo, Jr., of Harris County, Katy Texas; David S. Kulakofsky, of Harris County, Katy, Texas; Krishna M. Ravi, of Harris County, Kingwood, Texas, and Alvaro Escorcia, of Fort Bend County, Texas, have invented METHODS OF DISCOVERING AND CORRECTING SUBTERRANEAN FORMATION INTEGRITY PROBLEMS DURING DRILLING for which I have made application for Letters Patent of the United States; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application serial number 10/082,459, filed on February 25, 2002, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

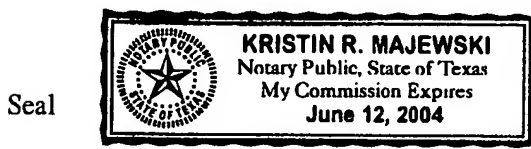
And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed this 1st day of April, 2002, at Houston, Harris County, Texas,
U.S.A.

Ronald E. Sweatman
Ronald E. Sweatman

State of Texas)
) ss
County of Harris)

Before me personally appeared said Ronald W. Sweatman and acknowledged the foregoing
instrument to be his free act and deed this 1st day of April, 2002.



Kristin R. Majewski
(Notary Public)

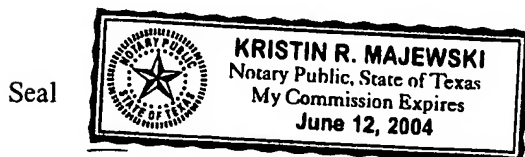
My Commission Expires: June 12, 2004

Executed this 3rd day of April, 2002, at Houston, Harris County, Texas,
U.S.A.

Richard F. Vargo, Jr.
Richard F. Vargo, Jr.

State of Texas)
) ss
County of Harris)


Before me personally appeared said Richard F. Vargo, Jr. and acknowledged the foregoing
instrument to be his free act and deed this 3rd day of April, 2002.



Kristin R. Majewski
(Notary Public)

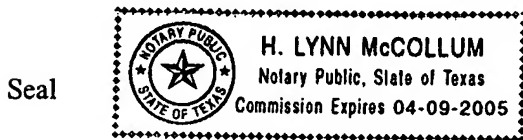
My Commission Expires: June 12, 2004

Executed this 2nd day of April, 2002, at Houston, Harris County, Texas,
U.S.A.


David S. Kulakofsky

State of Texas)
) ss
County of Harris)

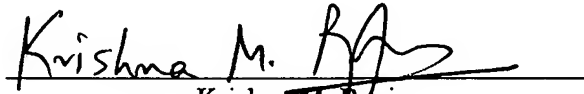
Before me personally appeared said David S. Kulakofsky and acknowledged the foregoing
instrument to be his free act and deed this 2nd day of April, 2002.




(Notary Public)

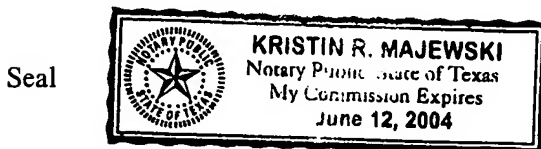
My Commission Expires: 04-09-2005

Executed this 4th day of April, 2002, at Houston, Harris County, Texas,
U.S.A.


Krishna M. Ravi

State of Texas)
) ss
County of Harris)

Before me personally appeared said Krishna M. Ravi and acknowledged the foregoing instrument
to be his free act and deed this 4th day of April, 2002.

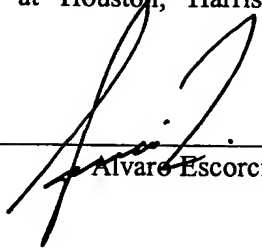



(Notary Public)

My Commission Expires: June 12, 2004

Executed this 2 day of APRIL, 2002, at Houston, Harris County, Texas,
U.S.A.

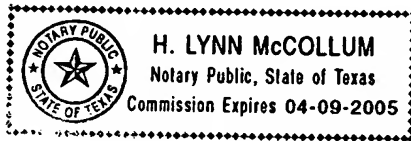
State of Texas)
) ss
County of Harris)

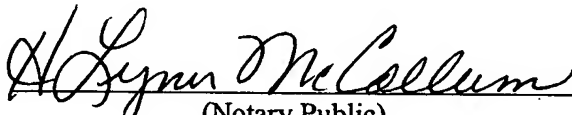


Alvaro Escorcía

Before me personally appeared said Alvaro Escorcía and acknowledged the foregoing instrument
to be his free act and deed this 2nd day of April, 2002.

Seal





(Notary Public)

My Commission Expires: 04-09-2005